Technical Cybersecurity

Evolution

'70-'75: Technical Interest

STARTED WITH TECHIES PLAYING AROUND

- Early programs and systems had NO SECURITY
- Early malware and hacking were for fun, pranks
- Small groups of people, essentially non-criminal

'70-'80: Becoming Darker

Malware started to cause problems

- Some were mischievous, printing messages, taunting
- ...others were not

SEE MALWARE TECHNIQUES IN OPEN

- Some are creating malware as primitive DRM
- ...too bad Sony wasn't paying attention

Malicious, evolving

- New techniques: polymorphic, multipartite, etc.
- Deliberate system destruction

'80-'90: Greed

NO REAL CRIMINAL ORGANIZATIONS YET

...but definite criminal intention

THE LAW IS PAYING ATTENTION

- ...but they are too draconian
- New legislation submitted, soon to pass

'90-'00: Arrests & Gov't

GOVERNMENT HACKS & MORE CRIME

- Online defacement
- US Military hacks
- Millions stolen from banks

SECURITY GETS SERIOUS

- Vendors start releasing patches more quickly
- Developers start paying attention

'00-now: Deadly Serious

RANSOMWARE

Surprisingly unprofitable

NATION-STATES

APT groups

ORGANIZED CRIME

Serious money, serious criminals

MAAS

Malware-as-a-service

How does this effect loT?